

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	40980	coerciv\$5	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/06 21:45
L4	1853451	domain barkhausen popcorn longitudinal	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 21:46
L5	2517529	free	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 21:46
L7	54	(3 and 4 and 5).clm.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 21:46

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	("5436778" "6278595" "6322911").pn.	US-PGPUB; USPAT	OR	OFF	2006/12/06 21:29
L2	774	(360/324.12).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/06 21:45
L3	40980	coerciv\$5	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/06 21:45
L4	1853451	domain barkhausen popcorn longitudinal	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 21:46
L5	2517529	free	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 21:46
L6	4422	3 and 4 and 5	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 21:46
L7	54	(3 and 4 and 5).clm.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 21:46
L8	2	(US-20040160709-\$).did. or (US-6210810-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/12/06 22:00

## EAST Search History

L9	36	(US-20050041339-\$ or US-20050167770-\$ or US-20050243476-\$ or US-20040190206-\$ or US-20040184200-\$ or US-20040170867-\$ or US-20040047087-\$ or US-20020186516-\$ or US-20040145836-\$ or US-20040075960-\$ or US-20020154458-\$ or US-20020008949-\$ or US-20040207963-\$ or US-20030206384-\$ or US-20030030948-\$ or US-20060146453-\$ or US-20040160709-\$ or US-20010014001-\$).did. or (US-6785954-\$ or US-6447689-\$ or US-6428714-\$ or US-6338899-\$ or US-6882509-\$ or US-6842315-\$ or US-6756648-\$ or US-6238531-\$ or US-6153062-\$ or US-6493197-\$ or US-6072665-\$ or US-6783874-\$ or US-6210810-\$).did. or (JP-2001291915-\$).did. or (US-20040190206-\$ or US-20040184200-\$ or US-20020008949-\$ or US-20020126429-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/12/06 22:00
S1	1969735	underlayer (under adj layer) under?layer seed buffer foundation (epitaxial\$3 crystal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:04
S2	177047	permanent adj2 magnet\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:04
S3	68620	PM	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:04
S4	2159	longitudinal adj2 bias\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:04

## EAST Search History

S5	3180	barkhausen	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:04
S6	4917	domain adj2 control\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:04
S7	49772	S1 and (S2 S3 S4 S5 S6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:06
S8	3096385	MR magnetoresist\$7 read head transducer GMR SVMR tmr tjmr	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:06
S9	26132	S7 and S8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:06
S10	11905	S1 same (S2 S3 S4 S5 S6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:06
S11	4974	S10 and S8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:07
S12	1023	free same S10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:07
S13	597	S12 and S8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:10
S14	3175	carey.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:11

## EAST Search History

S15	183287	("360"/\$ "369"/\$ "720"/\$ 29/603\$).cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:11
S16	50	S14 and S15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:56
S17	2	"6338899".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/26 17:56
S18	20	(US-20050167770-\$ or US-20050243476-\$ or US-20040075960-\$ or US-20040047087-\$ or US-20020186516-\$ or US-20040170867-\$).did. or (US-6153062-\$ or US-6238531-\$ or US-6447689-\$ or US-6428714-\$ or US-6338899-\$ or US-6756648-\$ or US-6072665-\$ or US-6882509-\$ or US-6842315-\$).did. or (JP-2001291915-\$).did. or (US-20040190206-\$ or US-20040184200-\$ or US-20020126429-\$ or US-20020008949-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/02/26 18:40
S19	6	(US-20040170867-\$).did. or (US-6238531-\$ or US-6447689-\$ or US-6428714-\$ or US-6338899-\$).did. or (US-20020008949-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/02/26 18:41
S20	619	(360/324.12).cccls.	US-PGPUB; USPAT	OR	OFF	2006/07/19 16:34
S21	466	S1 and S20	US-PGPUB; USPAT	OR	OFF	2006/02/26 18:44
S22	153	S20 not S21	US-PGPUB; USPAT	OR	OFF	2006/02/26 18:44
S23	1	"6493197".pn.	US-PGPUB; USPAT	OR	OFF	2006/02/26 19:10
S24	1	"20020008949".did.	US-PGPUB; USPAT	OR	OFF	2006/02/26 19:10

## EAST Search History

S25	28	(US-20050167770-\$ or US-20050243476-\$ or US-20040075960-\$ or US-20040047087-\$ or US-20020186516-\$ or US-20040170867-\$ or US-20040207963-\$ or US-20040190206-\$ or US-20040184200-\$ or US-20040145836-\$ or US-20030030948-\$ or US-20020008949-\$).did. or (US-6153062-\$ or US-6238531-\$ or US-6447689-\$ or US-6428714-\$ or US-6338899-\$ or US-6756648-\$ or US-6072665-\$ or US-6882509-\$ or US-6842315-\$ or US-6783874-\$ or US-6493197-\$).did. or (JP-2001291915-\$).did. or (US-20040190206-\$ or US-20040184200-\$ or US-20020126429-\$ or US-20020008949-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/02/26 20:50
S26	704	(360/324.12).ccls.	US-PGPUB; USPAT	OR	OFF	2006/12/06 21:37
S27	194034	(seed buffer base epitaxial crystal\$7).clm.	US-PGPUB	OR	OFF	2006/07/19 16:49
S28	235	(magnetic adj domain).clm.	US-PGPUB	OR	OFF	2006/07/19 16:49
S29	22	(barkhausen).clm.	US-PGPUB	OR	OFF	2006/07/19 16:49
S30	106	(popcorn).clm.	US-PGPUB	OR	OFF	2006/07/19 16:49
S31	408	(longitudinal\$3 near3 bias\$5).clm.	US-PGPUB	OR	OFF	2006/07/19 16:49
S32	3749	(magnetoresist\$5 MR GMR TMR SVMR TJMR SV ).clm.	US-PGPUB	OR	OFF	2006/07/19 16:50
S33	955	(underlayer).clm.	US-PGPUB	OR	OFF	2006/07/19 16:50
S34	46	(S27 S33) and (S28 S29 S30 S31) and ( S32)	US-PGPUB	OR	OFF	2006/07/19 16:56
S35	0	"6785952".pn.	US-PGPUB	OR	OFF	2006/07/19 16:57
S36	0	"6785954".pn.	US-PGPUB	OR	OFF	2006/07/19 16:57
S37	1	"6785954".pn.	USPAT	OR	OFF	2006/07/19 16:57

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1	INZZ	domain OR longitudinal OR barkhausen OR popcorn	unrestricted	340412	<a href="#">show titles</a>
2	INZZ	control OR bias OR noise	unrestricted	1464665	<a href="#">show titles</a>
3	INZZ	underlayer OR seed OR buffer	unrestricted	54800	<a href="#">show titles</a>
4	INZZ	free	unrestricted	366562	<a href="#">show titles</a>
5	INZZ	sensing	unrestricted	172087	<a href="#">show titles</a>
6	INZZ	sensor	unrestricted	124076	<a href="#">show titles</a>
7	INZZ	coercivity OR coercive	unrestricted	25998	<a href="#">show titles</a>
8	INZZ	2 AND 3 AND (4 OR 5 OR 6) AND 7	unrestricted	7	<a href="#">show titles</a>

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-  Classification codes A: Physics, 6
-  Classification codes A: Physics, 7
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-  Classification codes A: Physics, 9
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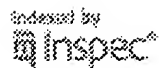
### Recent Search Queries

### Results

<u>#1</u>	(( domain or longitudinal or barkhausen or popcorn<in>metadata ) <and> ( control or bias or noise<in>metadata ) )<and> ( (free or sensing or sensor) and (coercivity or coercive) <in>metadata )	371
<u>#2</u>	(magnetoresistive or mr) and (( domain or longitudinal or barkhausen or popcorn<in>metadata ) <and> ( control or bias or noise<in>metadata ) )<and> ( (free or sensing or sensor) and (coercivity or coercive) <in>metadata )	102
<u>#3</u>	(hard or permanent or magnetic) and (magnetoresistive or mr) and (( domain or longitudinal or barkhausen or popcorn<in>metadata ) <and> ( control or bias or noise<in>metadata ) )<and> ( (free or sensing or sensor) and (coercivity or coercive) <in>metadata )	101
<u>#4</u>	(hard or permanent or magnetic) and (magnetoresistive or mr) and (( domain or longitudinal or barkhausen or popcorn<in>metadata ) <and> ( control or bias or noise<in>metadata ) )<and> ( (free or sensing or sensor) and (coercivity or coercive) <in>metadata )	101
<u>#5</u>	(hard or permanent or magnetic) and (magnetoresistive or mr) and (( domain or longitudinal or barkhausen or popcorn<in>metadata ) <and> ( control or bias or noise<in>metadata ) )<and> ( (free or sensing or sensor) and (coercivity or coercive) <in>metadata )	101
<u>#6</u>	(hard or permanent or magnetic) and (magnetoresistive or mr) and (( domain or longitudinal or barkhausen or popcorn<in>metadata ) <and> ( control or bias	101

or noise<in>metadata ) )<and> ( (free or  
sensing or sensor) and (coercivity or coercive)  
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